Performance Data Sheet

RKA5515CXV

General Information

Model	RKA5515CXV	**Refrigerant**	R-407C
Test Condition	ASHRAE	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	35°C (95°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4510	3860					
	Watts	680	717					
	Amps	2.51	2.74					
	Lb/h	56.1	50.4					
-10	Btu/h	5120	4520	3990				
	Watts	707	753	795				
	Amps	2.64	2.89	3.08				
	Lb/h	65.4	60.7	55.9				
-5	Btu/h	5820	5260	4750	4280			
	Watts	730	785	835	883			
	Amps	2.74	3.03	3.24	3.42			
	Lb/h	74.9	71.0	67.1	62.9			
0	Btu/h	6620	6080	5600	5130	4640		
	Watts	749	812	870	927	984		
	Amps	2.83	3.14	3.38	3.58	3.79		
	Lb/h	84.7	81.6	78.4	75.0	71.0		
5	Btu/h	7500	6990	6510	6040	5530		
	Watts	764	834	900	966	1030		
	Amps	2.89	3.23	3.49	3.72	3.95		
	Lb/h	95.2	92.7	90.2	87.4	84.1		
10	Btu/h	8460	7970	7500	7010	6480	5870	5150
	Watts	775	852	926	999	1070	1150	1230
	Amps	2.94	3.30	3.59	3.85	4.10	4.39	4.75
	Lb/h	107	105	103	100	97.5	93.9	89.4
15	Btu/h	9510	9030	8550	8050	7480	6810	6030
	Watts	782	866	947	1030	1110	1200	1290
	Amps	2.96	3.35	3.67	3.95	4.23	4.54	4.92
	Lb/h	119	117	116	114	111	108	104
20	Btu/h	10600	10200	9670	9140	8530	7810	6950
	Watts	785	875	964	1050	1140	1240	1340
	Amps	2.97	3.39	3.74	4.04	4.34	4.68	5.08
	Lb/h	133	131	130	128	126	123	119

25	Btu/h	11800	11400	10900	10300	9620	8840	7900
	Watts	784	881	976	1070	1170	1270	1380
	Amps	2.96	3.41	3.78	4.11	4.44	4.80	5.22
	Lb/h	148	147	145	144	142	139	135
30	Btu/h	13100	12600	12100	11500	10800	9910	8890
	Watts	780	882	984	1090	1190	1300	1420
	Amps	2.93	3.41	3.81	4.17	4.52	4.90	5.34
	Lb/h	165	164	162	161	159	156	152
35	Btu/h	14500	14000	13400	12700	12000	11000	9900
	Watts	772	880	987	1100	1210	1330	1450
	Amps	2.88	3.39	3.82	4.21	4.58	4.99	5.45
	Lb/h	184	182	181	179	177	174	171
40	Btu/h	15900	15400	14700	14000	13200	12200	10900
	Watts	760	873	987	1100	1220	1340	1480
	Amps	2.82	3.36	3.82	4.23	4.63	5.06	5.55
	Lb/h	205	203	201	200	197	194	190
45	Btu/h	17400	16800	16200	15400	14400	13300	12000
	Watts	745	863	982	1100	1230	1360	1500
	Amps	2.75	3.32	3.81	4.24	4.67	5.12	5.63
	Lb/h	228	226	224	222	219	216	211
50	Btu/h	18900	18300	17600	16800	15700	14500	13100
	Watts	727	850	974	1100	1230	1370	1510
	Amps	2.66	3.26	3.78	4.24	4.69	5.17	5.70
	Lb/h	254	252	249	246	243	239	234
55	Btu/h	20500	19900	19100	18200	17100	15800	14200
	Watts	705	833	961	1090	1230	1370	1520
	Amps	2.56	3.19	3.73	4.23	4.71	5.20	5.76
	Lb/h	283	280	277	273	269	265	259

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.622350E+04	-9.399691E+01	-6.405292E+00	1.368855E+02
C2	9.529325E+00	-5.792494E+00	-4.009925E-02	1.007240E+00
C3	-2.162180E+02	1.657703E+01	2.330240E-01	-1.239781E+00
C4	2.879686E+00	-3.284808E-02	-4.472590E-04	3.303828E-02
C5	3.209001E+00	8.019202E-02	8.008330E-04	1.205291E-02
C6	1.610420E+00	-9.965090E-02	-1.942229E-03	1.052868E-02
C7	-3.331150E-03	1.233081E-04	9.743931E-07	2.909086E-04
C8	-1.428372E-02	-6.276246E-04	4.638681E-07	-2.546025E-04
C9	-1.544381E-02	4.317765E-04	-1.439508E-06	9.315741E-06
C10	-5.107665E-03	3.028967E-04	5.901673E-06	-3.974743E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature